

LFD *Laminar Flow Diffuser*





Introduction

Laminar flow diffuser mainly used at hospital's operation room and clean room such as: semiconductor manufacturing, biotechnology, the life sciences and others which required clean environment.

Laminar flow diffusers have been engineered to produce a non-aspirating, low velocity, uniformly downward moving "piston" of conditioned air. The laminar flow diffuser introduces clean supply air with unidirectional flow to minimize air induction, reducing the opportunity for contaminated air to be re-entrained and pollute a clean airstream.

CONSTRUCTIONS & MATERIALS

- Perforated hole pitch: 8 mm
- Perforated hole diameter: 6 mm
- Filter can be easily removed and replaced
- Face plate is attached with fasteners and easily removable

Plenum



Extruded Aluminium



Galvanized Steel Upon Request



Stainless Steel Upon Request

Perforated Surface



Extruded Aluminium



Galvanized Steel Upon Request

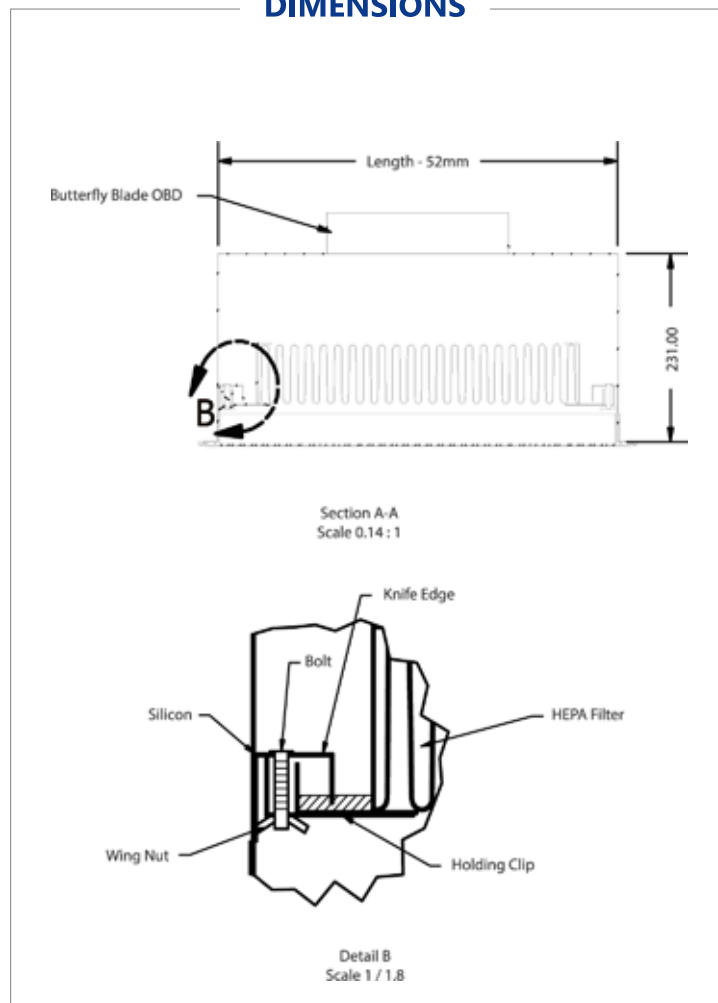


Stainless Steel Upon Request

SIZE AVAILABLE

Module Size		Knife Edge Dimension	Collar Size Available
Inch	mm		
24 x 12	600 x 300	17 ³ / ₈ x 5 ³ / ₈	6, 8
48 x 12	1200 x 300	41 ³ / ₈ x 5 ³ / ₈	6, 8
60 x 12	1500 x 300	53 ³ / ₈ x 5 ³ / ₈	6, 8
24 x 24	600 x 600	17 ³ / ₈ x 17 ³ / ₈	6, 8, 10, 12
36 x 24	900 x 600	29 ³ / ₈ x 17 ³ / ₈	6, 8, 10, 12
48 x 24	1200 x 600	41 ³ / ₈ x 17 ³ / ₈	6, 8, 10, 12
60 x 24	1500 x 600	53 ³ / ₈ x 17 ³ / ₈	6, 8, 10, 12

DIMENSIONS



TECHNICAL PERFORMANCE DATA

48" x 12" / 1200mm x 300mm 8" Round Inlet				
CMH	TP	SP	NC	Throw
150	32.0	28.2	-	0.15-0.30-0.43
200	57.7	57.4	16	0.15-0.30-0.87
250	91.0	88.5	20	0.36-0.51-1.22
300	137.0	132.0	25	0.46-0.76-1.52
350	179.7	173.9	28	0.65-1.11-1.61
400	234.7	225.3	31	0.87-1.33-2.06
450	295.1	286.5	34	0.98-1.44-2.33
500	362.9	353.9	37	1.43-1.89-2.86

60" x 12" / 1500mm x 300mm 8" Round Inlet				
CMH	TP	SP	NC	Throw
150	20.0	20.0	-	0.06-0.30-0.43
200	38.4	36.2	16	0.28-0.30-0.87
250	60.1	57.6	19	0.30-0.51-1.22
300	86.2	81.6	23	0.30-0.73-1.34
350	116.9	111.2	26	0.61-1.11-1.57
400	153.5	146.0	29	0.84-1.22-1.92
450	193.8	183.9	33	0.98-1.52-2.20
500	237.9	227.9	37	1.22-1.95-2.65

24" x 24" / 600mm x 600mm Diffuser 8" Round Inlet				
CMH	TP	SP	NC	Throw
150	32.0	29.7	-	0.15-0.30-0.61
200	57.8	55.2	17	0.15-0.32-0.90
250	88.5	85.9	20	0.36-0.51-1.22
300	129.2	124.6	24	0.46-0.73-1.47
350	174.7	168.9	27	0.65-1.11-1.83
400	227.8	220.3	30	0.87-1.33-2.06
450	289.5	279.0	34	0.98-1.44-2.33
500	352.7	340.2	37	1.34-1.80-2.69

36" x 24" / 900mm x 600mm Diffuser 8" Round Inlet				
CMH	TP	SP	NC	Throw
150	12.9	12.9	-	0.10-0.15-0.46
200	24.0	24.0	15	0.10-0.30-0.61
250	38.4	35.9	19	0.17-0.41-0.97
300	55.1	50.5	23	0.30-0.61-1.32
350	76.6	69.2	27	0.61-0.91-1.57
400	98.6	91.2	30	0.61-1.03-1.79
450	124.3	116.2	33	0.79-1.41-2.20
500	151.8	141.9	35	0.91-1.52-2.44

36" x 24" / 900mm x 600mm Diffuser 10" Round Inlet				
CMH	TP	SP	NC	Throw
250	28.5	28.5	-	0.30-0.61-0.91
300	43.1	41.0	17	0.30-0.61-1.32
350	58.5	55.9	20	0.61-0.91-1.57
400	76.8	72.4	23	0.61-1.03-1.79
450	95.7	92.6	26	0.80-1.29-2.20
500	119.4	114.5	29	0.91-1.52-2.44
550	143.0	137.6	32	1.22-1.71-2.62
600	170.7	164.8	35	1.41-2.02-2.84

48" x 24" / 1200mm x 600mm 8" Round Inlet				
CMH	TP	SP	NC	Throw
150	9.6	7.1	-	0.10-0.15-0.46
200	16.8	14.3	-	0.15-0.30-0.61
250	25.0	21.7	18	0.20-0.35-0.81
300	36.1	31.1	22	0.30-0.58-1.17
350	47.7	42.8	26	0.35-0.65-1.52
400	64.4	57.4	29	0.57-0.87-1.76
450	80.1	72.1	32	0.61-1.26-2.02
500	97.9	87.9	35	0.85-1.50-2.13

48" x 24" / 1200mm x 600mm 10" Round Inlet				
CMH	TP	SP	NC	Throw
250	32.0	16.7	-	0.30-0.30-0.61
300	32.0	24.0	15	0.30-0.55-1.17
350	32.0	31.4	18	0.35-0.65-1.52
400	32.0	40.6	21	0.57-0.87-1.76
450	32.0	51.6	25	0.61-1.26-2.02
500	32.0	64.4	28	0.82-1.37-2.13
550	32.0	76.5	31	0.96-1.45-2.47
600	32.0	91.2	34	1.41-2.02-2.69

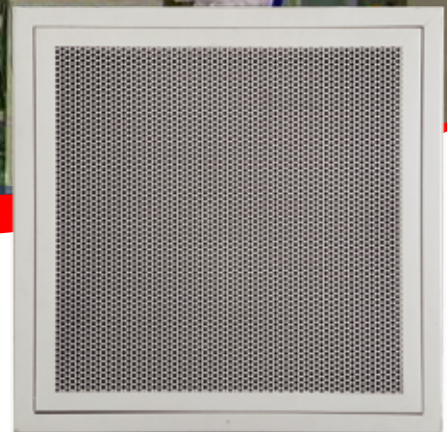
48" x 24" / 1200mm x 600mm 12" Round Inlet				
CMH	TP	SP	NC	Throw
400	42.8	40.3	16	0.35-0.70-1.87
500	63.9	61.4	20	0.66-1.27-2.18
600	91.8	88.6	24	1.26-1.72-2.48
700	126.4	121.4	27	1.58-2.19-2.96
750	144.4	139.4	29	1.74-2.35-3.16
800	163.9	158.9	31	1.88-2.49-3.41
850	184.4	179.4	32	2.03-2.64-3.56
900	206.3	201.3	33	2.18-2.79-3.71

60" x 24" / 1500mm x 600mm 10" Round Inlet				
CMH	TP	SP	NC	Throw
250	13.3	10.9	-	0.30-0.30-0.71
300	17.0	14.5	-	0.30-0.56-1.17
350	23.9	21.4	18	0.35-0.65-1.52
400	31.2	26.8	22	0.57-0.87-1.75
450	38.6	33.6	25	0.61-1.26-2.02
500	47.6	42.6	28	0.82-1.48-2.13
550	56.1	51.1	31	0.96-1.57-2.46
600	67.1	62.2	34	1.41-2.02-02.69








60" x 24" / 1500mm x 600mm 12" Round Inlet				
CMH	TP	SP	NC	Throw
400	27.1	26.4	16	0.39-0.70-1.83
500	41.1	40.7	20	0.66-1.27-2.18
600	59.9	57.4	24	1.26-1.72-2.37
700	82.1	78.6	27	1.58-2.10-2.80
750	94.3	89.3	29	1.74-2.35-3.01
800	107.4	101.5	31	1.83-2.49-3.25
850	122.1	114.6	32	1.88-2.59-3.40
900	136.7	129.2	33	2.03-2.63-3.56



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Products Range

- Grilles 
- Diffusers  ◀
- Dampers 
- Fire & Smoke Protection 
- VAV 
- Others 
- Accessories 



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